

Application Serial No. 10/755,987  
Reply to office action of November 9, 2006

PATENT  
Docket: CU-3539

### **Amendments To The Claims**

The listing of claims presented below will replace all prior versions, and listings, of claims in the application.

#### **Listing of claims:**

1. **(currently amended)** A condenser microphone comprising:  
a condenser housing defining an inner space therein; and  
a variable gap condenser enclosed in said inner space in said condenser housing and including  
an insulating substrate,  
a conductive fixed back plate mounted securely on said insulating substrate,  
a diaphragm unit spaced apart from said back plate and aligned with and movable relative to said back plate in a first transverse direction relative to said back plate, and  
a spacer unit interposed between and in contact with said back plate and said diaphragm unit so as to support said diaphragm unit on said back plate and so as to define a variable gap thereamong, said spacer unit defining at least a first air passage that extends in a second transverse direction relative to said first transverse direction and that is disposed between and in spatial communication with said inner space and said variable gap;

**wherein said spacer unit includes a plurality of spaced apart spacer blocks around said variable gap and defines a plurality of said first air**

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passages, each of which is defined by two adjacent ones of said spacer

blocks; and

wherein said diaphragm unit has a central portion confining a top  
side of said variable gap, and a plurality of fins disposed around and extending  
outwardly from a periphery of said central portion and connected respectively  
to said spacer blocks, said diaphragm unit defining a plurality of second air  
passages, each of which is defined by two adjacent ones of said fins and each  
of which is in spatial communication with said inner space and said variable  
gap.

2-3. (cancelled)

4. (original) The condenser microphone of Claim 1, wherein said diaphragm unit includes a compliant layer formed on said spacer unit, and a conductive film formed on said compliant layer and defining an electrode of said variable gap condenser.

5. (original) The condenser microphone of Claim 4, further comprising a field effect transistor mounted on said insulating substrate and connected electrically to said electrode.

6. (original) The condenser microphone of Claim 1, further comprising an electret formed on said back plate and disposed between said back plate and said spacer unit.

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7. (original) The condenser microphone of Claim 1, wherein said condenser housing has a bottom wall, a peripheral wall extending upwardly from said bottom wall and spaced apart from said variable gap condenser, and a top wall opposite to said bottom wall and extending laterally from said peripheral wall, said insulating substrate being mounted on said bottom wall of said condenser housing, said top wall being spaced apart from said diaphragm unit and being formed with a top opening that is aligned with said diaphragm unit, said condenser housing further having a cover that covers said top opening in said top wall and that permits transmission of sound waves therethrough.

8-9. (cancelled)